

TABLE 2-9  
RADIOLOGICAL AREAS 1 AND 2  
EROSIONAL SEDIMENT ANALYTICAL RESULTS - URANIUM 238 DECAY SERIES (picocuries per gram [pCi/G])  
METHODS NAS-NS-3050, HASL 300, AND NAS-NS-3004  
WEST LAKE LANDFILL, BRIDGETON, MISSOURI

Weir Number	Uranium-238			Thorium-234			Uranium-234			Thorium-230			Radium-226			Lead-214			Bismuth-214			Lead-210		
	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error									
Site Specific Background (Mean +2)	1.81			2.76			2.73			2.54			1.3			1.13			1.61			3.77		
Reference Level Concentration	6.81			7.76			7.73			7.54			6.3			6.13			6.61			8.77		
AREA 1																								
1	0.88	0.18	0.41	<MDA	1.13	-	1.25	0.24	0.51	4.00	0.12	0.96	0.64	0.24	0.16	0.63	0.26	0.21	0.67	0.24	0.23	<MDA	1.72	-
1 DUP (F)	-	-	-	<MDA	3.49	-	-	-	-	-	-	-	<MDA	0.74	-	<MDA	0.65	-	<MDA	0.74	-	<MDA	42.60	-
2	2.79	0.46	0.98	<MDA	4.55	-	2.56	0.67	0.96	147	3	29	18.8	0.5	1.2	19.5	0.5	1.4	18.8	0.5	1.5	33.1	4.5	5.3
2 DUP (F)	-	-	-	<MDA	2.22	-	-	-	-	-	-	-	3.32	0.35	0.34	3.59	0.31	0.39	2.85	0.35	0.49	5.98	2.18	1.74
3	0.65	0.21	0.36	<MDA	1.20	-	0.94	0.29	0.45	6.36	0.21	6.36	0.64	0.31	0.20	0.63	0.28	0.29	<MDA	0.53	-	1.83	1.51	1.07
3 DUP (F)	-	-	-	<MDA	1.49	-	-	-	-	-	-	-	0.71	0.31	0.18	0.61	0.22	0.20	<MDA	0.58	-	2.56	1.11	1.42
4	0.87	0.21	0.41	<MDA	1.49	-	1.04	0.21	0.45	1.57	0.12	0.46	0.66	0.35	0.20	0.62	0.30	0.25	<MDA	0.58	-	<MDA	1.74	-
4 DUP (F)	-	-	-	<MDA	3.37	-	-	-	-	-	-	-	0.67	0.30	0.18	0.69	0.25	0.19	<MDA	0.53	-	<MDA	26.90	-
AREA 2																								
5	11.4	4.4	7.3	<MDA	8.34	-	6.90	5.91	5.71	413	0.1	78	22.7	7.9	7.7	11.4	0.9	1.5	<MDA	2.34	-	<MDA	103	-
6	<MDA	3.22	-	<MDA	1.24	-	<MDA	8.21	-	39.2	0.2	2.7	8.05	2.27	2.58	1.62	0.26	0.31	<MDA	0.71	-	2.83	1.56	1.31
7	<MDA	0.10	-	<MDA	1.72	-	<MDA	0.20	-	9.00	0.21	1.87	<MDA	3.08	-	0.57	0.38	0.40	<MDA	0.65	-	<MDA	2.34	-
8	1.28	1.28	1.36	<MDA	4.46	-	<MDA	1.28	-	3.34	0.14	0.81	<MDA	5.44	-	<MDA	0.72	-	<MDA	0.81	-	<MDA	71.9	-
9	<MDA	2.37	-	<MDA	1.97	-	5.28	4.62	4.42	150	0.1	22	6.68	2.19	3.01	2.59	0.29	0.38	2.40	0.33	0.47	10.1	1.7	2.6

-- = Not reported.  
DUP (F) = Field duplicate  
MDA = Minimum Detectable Activity  
Bolded numbers indicate result reported above minimum detectable activity.

TABLE 2-10  
 EROSIONAL SEDIMENT ANALYTICAL DATA - URANIUM 235 DECAY SERIES (picocuries per gram [pCi/G])  
 METHODS NAS-NS-3050 AND HASL 300  
 WEST LAKE LANDFILL, BRIDGETON, MISSOURI

Weir Number	Uranium-235/236			Uranium-235			Protactinium-231			Actinium-227			Radium-223		
	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error
Site Specific Background (Mean +2)	1.15			-			-			-			-		
Reference Level Concentration	5.15			5			5			5			5		
<b>AREA 1</b>															
1	<MDA	0.218	0.01	<MDA	0.70	--	<MDA	3.70	--	<MDA	0.81	--	<MDA	3.56	--
1 DUP (F)	--	--	--	<MDA	1.30	--	<MDA	6.48	--	<MDA	1.26	--	<MDA	6.77	--
2	<MDA	0.83	0.44	<b>3.34</b>	1.60	0.59	<b>49.9</b>	8.4	6.8	<b>30.1</b>	1.4	3.6	<b>25.3</b>	4.0	4.3
2 DUP (F)	--	--	--	<MDA	0.76	--	<b>8.04</b>	5.66	4.55	<b>4.00</b>	0.84	0.83	<b>3.83</b>	3.37	1.17
3	<MDA	0.33	0.22	<MDA	0.65	--	<MDA	4.15	--	<MDA	0.83	--	<MDA	4.53	--
3 DUP (F)	--	--	--	<MDA	0.56	--	<MDA	3.23	--	<MDA	0.65	--	<MDA	3.70	--
4	<MDA	0.239	0.142	<MDA	0.73	--	<MDA	4.44	--	<MDA	0.85	--	<MDA	3.70	--
4 DUP (F)	--	--	--	<MDA	0.93	--	<MDA	4.56	--	<MDA	1.03	--	<MDA	4.52	--
<b>AREA 2</b>															
5	<MDA	3.50	3.68	<MDA	2.34	--	<MDA	14.2	--	<b>7.75</b>	2.25	2.81	<MDA	14.29	--
6	<MDA	6.16	0.30	<MDA	0.61	--	<MDA	4.20	--	<MDA	0.84	--	<MDA	4.13	--
7	<MDA	0.27	0.14	<MDA	0.89	--	<MDA	5.63	--	<MDA	1.26	--	<MDA	5.23	--
8	<MDA	1.73	0.12	<MDA	1.58	--	<MDA	8.98	--	<MDA	1.90	--	<MDA	7.70	--
9	<MDA	5.20	2.18	<MDA	0.63	--	<MDA	4.15	--	<MDA	0.71	--	<MDA	4.79	--

-- = Not reported  
 DUP (F) = Field duplicate  
 MDA = Minimum Detectable Activity  
 Bolded numbers indicate results reported above minimum detectable activity.

TABLE 2-11  
 EROSIONAL SEDIMENT ANALYTICAL DATA - THORIUM 232 DECAY SERIES (picocuries per gram [pCi/G])  
 METHODS NAS-NS-3050, HASL 300, AND NAS-NS-3004  
 WEST LAKE LANDFILL, BRIDGETON, MISSOURI

Well Number	Thorium-232			Radium-228			Thorium-228			Radium-224			Lead-212			Bismuth-212			Thallium-208		
	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error	Result	MDA	2 Sigma Error
Site Specific Background (Mean +2)	2.76			2.37			0.88			-			2.26			-			0.71		
Reference Level Concentration	7.76			7.37			5.88			5			7.26			5			5.71		
AREA 1																					
1	0.29	0.12	0.19	<MDA	0.67	-	<MDA	0.28	0.19	<MDA	3.36	-	0.30	0.20	0.15	<MDA	1.46	-	<MDA	0.19	-
1 DUP (F)	-	-	-	<MDA	1.03	-	-	-	-	<MDA	4.55	-	0.45	0.26	0.37	<MDA	1.66	-	<MDA	0.33	-
2	3.68	2.45	2.56	<MDA	1.32	-	<MDA	3.03	1.59	<MDA	7.64	-	0.97	0.38	0.30	<MDA	2.07	-	0.62	0.24	0.27
2 DUP (F)	-	-	-	<MDA	0.98	-	-	-	-	<MDA	3.68	-	0.84	0.22	0.23	<MDA	1.71	-	0.32	0.15	0.20
3	0.56	0.17	0.56	<MDA	0.83	-	0.40	0.21	0.40	<MDA	3.53	-	0.29	0.20	0.18	<MDA	1.60	-	<MDA	0.22	-
3 DUP (F)	-	-	-	<MDA	0.80	-	-	-	-	<MDA	2.48	-	0.22	0.19	0.14	<MDA	1.53	-	<MDA	0.21	-
4	0.88	0.14	0.32	1.15	0.86	0.44	0.76	0.17	0.30	<MDA	4.87	-	1.15	0.20	0.21	<MDA	1.54	-	0.48	0.17	0.16
4 DUP (F)	-	-	-	<MDA	1.14	-	-	-	-	<MDA	2.65	-	1.00	0.22	0.26	<MDA	1.57	-	0.41	0.18	0.16
AREA 2																					
5	3.37	0.09	0.79	<MDA	1.60	-	0.45	0.12	0.20	<MDA	10.13	-	<MDA	0.90	-	<MDA	3.27	-	<MDA	0.50	-
6	1.54	0.15	0.44	1.15	0.67	0.51	0.89	0.13	0.31	<MDA	3.09	-	0.99	0.20	0.20	<MDA	1.62	-	0.37	0.14	0.17
7	0.97	0.21	0.32	<MDA	1.21	-	2.03	0.16	0.54	<MDA	4.34	-	1.15	0.21	0.32	<MDA	1.90	-	<MDA	0.20	-
8	0.16	0.10	0.12	<MDA	1.37	-	1.37	0.14	0.42	<MDA	5.82	-	<MDA	0.51	-	<MDA	2.80	-	<MDA	0.41	-
9	1.94	0.11	0.49	<MDA	1.04	-	47.8	0.15	0.21	<MDA	2.14	-	0.59	0.19	0.18	<MDA	1.77	-	0.30	0.17	0.18

-- = Not reported

DUP (F) = Field duplicate

MDA = Minimum Detectable Activity

Bolded numbers indicate result reported above minimum detectable activity.